US-PAT-NO: 5031891

DOCUMENT-IDENTIFIER: US 5031891 A

TITLE: Method and system for selectively collating subjectively different printed copy products, particularly different newspaper inserts for targeted distribution

DATE-ISSUED: July 16, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobler; Ingo	Anhausen	N/A	N/A	DE
Petersen; Godber	Augsburg	N/A	N/A	DE

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
MAN Roland Druckmaschinen AG	Offenbach am Main	N/A	N/A	DE	03

APPL-NO: 07/ 536076

DATE FILED: June 11, 1990

PARENT-CASE:

This application is a continuation of U.S. application Ser. No. 07/307,333, filed Feb. 6, 1989, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3806351	February 27, 1988

INT-CL: [05] B65H039/02

US-CL-ISSUED: 270/54, 270/58

US-CL-CURRENT: 270/52.03

FIELD-OF-SEARCH: 270/52; 270/54-58 ; 364/478

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL		
3442186	May 1969	Hirose et al.	N/A	N/A	N/A
3819173	June 1974	Anderson	270/54	N/A	N/A
3917252	November 1975	Harder et al.	270/58	N/A	N/A
4022455	May 1977	Newsome	270/54	N/A	N/A

4484733	November 1984	Loos	270/58	N/A	N/A
4500083	February 1985	Wong	270/54	N/A	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
967668	May 1975	CA	270/54
2726131	December 1978	DE	
570326	December 1975	CH	

ART-UNIT: 341

PRIMARY-EXAMINER: Look; Edward K.

ASSISTANT-EXAMINER: Newholm; Therese M.

ATTY-AGENT-FIRM: Frishauf, Holtz, Goodman & Woodward

ABSTRACT:

To permit placement of selected copy products having different subject matter together in specifically collated copy product assemblies, for association of individualized copy product assemblies with delivery addresses in a specific sequence, for example specific to subscribers or distribution stations or regions, a controller-computer (10) stores delivery addresses and the desired copy products at specific delivery addresses. All the copy products are stored in individual storage locations, from which, with respect to a specific address within the sequence, selected individual copy products are removed, for placement on collecting spaces (48-56) on a collecting transport system. The controller-computer includes timing circuits controlling, respectively, the removal and guidance of selected copy products for the specific addresses in the sequence to specific collecting spaces, as the transport system moves beneath the storage locations or stations, to form the collected product assemblies which, then, can be supplied with a cover (39) or directly with the delivery address. The first or last of the copy product stations (1, 4) can hold folded newspapers which, for example, can be the main section of a newspaper, with which specific regional or advertisement inserts, formed by the copy products, are then assembled.

15 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

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Abstract Text - ABTX (1):

To permit placement of selected copy products having different subject matter together in specifically collated copy product assemblies, for association of individualized copy product assemblies with delivery addresses in a specific sequence, for example specific to subscribers or distribution

stations or regions, a controller-computer (10) stores delivery addresses and the desired copy products at specific delivery addresses. All the copy products are stored in individual storage locations, from which, with respect to a specific address within the sequence, selected individual copy products are removed, for placement on collecting spaces (48-56) on a collecting transport system. The controller-computer includes timing circuits controlling, respectively, the removal and guidance of selected copy products for the specific addresses in the sequence to specific collecting spaces, as the transport system moves beneath the storage locations or stations, to form the collected product assemblies which, then, can be supplied with a cover (39) or directly with the delivery address. The first or last of the copy product stations (1, 4) can hold folded newspapers which, for example, can be the main section of a newspaper, with which specific regional or advertisement inserts, formed by the copy products, are then assembled.

Brief Summary Text - BSTX (4):

Background. Various types of apparatus are known in order to associate printed copy products forming inserts and additions to newspapers, for example to associate various local sections to a national section, to add specific advertisement inserts targeted to particular readers or to particular geographic locations. Such addition or insertion can be done by machinery and/or partially or entirely manually. Printed copy products are then delivered over distribution systems to the receivers which, for example, may be individual subscribers, or specific distribution sections or newsstands located, for example, in a specific geographic area. Individualizing the assembled copy products was not economically possible heretofore, particularly if a substantial number of different copy products are available, for individual association with, for example, a main or national section. To associate specific ones of a large number of copy products was expensive and difficult and, therefore, usually not economically feasible.

Detailed Description Text - DETX (2):

Storage locations 1, 2, 3, 4, so arranged that individual copy products 6, 7, 8, 9 stored thereon can be remove from the storage locations store the respective copy products which carry different subject matter, for example different types of advertisement, different regional news, different information sections or the like. A moving collecting transport system 5 is located preferably beneath the stations 1-4. The transport system 5 may include well known endless belt transports or chain transport apparatus, customarily used in paper handling or newspaper distribution apparatus. The subjectively different products held separately at the at the stations 1-4 are assembled or associated together to form associated collated copy product assemblies 36, in accordance with specific product selection control based on the delivery address sequence. The data or information regarding the selection is stored in a memory section of a controller-computer 10. The memory, of course, may be separate from the computer or integrated therein; the computer stores